



ARRIS Media Gateway DOCSIS® 3.0 MG2402G/CT Series

Specifications

Physical

Operating Temperature °F (°C)	41 to 104 (5 to 40)
Operating Relative Humidity (Min-Max)	5-85% (Non condensing)
Storage Temperature °F (°C)	-40 to 158 (-40 to 70)
Color	Black
Dimensions (H x W x D) mm.	295 x 10 x 100
Weight lbs	3.1 lbs - No battery included
Battery Back-up 8-Hour Option	Lithium-ion 4.4AH Capacity
Battery Weight lbs	2.0 lbs (0.91 kg)
Battery Storage Temperature °F (°C)	-4 to 140 (-20 to 60) Note: Storage above 77° F (25° C) will significantly reduce life of the battery and is not recommended.
Telemetry	AC Fail, Battery Low, Battery Missing, Replace Battery
Hard Disk Drive	2.5" up to 2 TB
Diagnostic LEDs	Power, US/DS, Online, Ethernet, WiFi, Tel 1, Tel 2, Battery, Record

Interfaces

RF Interface	External 'F' type connector
Data Interfaces (bridged)	4 x 10/100/1000 Base-T Ethernet (RJ-45 connector)
Telephony Interface	2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")
USB Interface	2 x USB 2.0 Powered Host Port
Conditional Access	Optional Separable Security with Multi-Stream CableCARD interface
Power Supply	External 100-120 VAC 60 Hz
Short Range RF	Zigbee® Pro and RF4CE
External Storage	eSATA, 1 x SD Card Slot

RF Downstream

Tuner Configuration	Single 1GHz wide Full Bandwidth Capture front end
Demodulation	Up to 16 or 24 carriers usable interchangeably for DOCSIS or Digital Video
DOCSIS 3.0 Bonding	Up to 16 or 24 channels
Frequency Range (MHz)	108-1002
Carrier Bandwidth (MHz)	6
Modulation	64 and 256 QAM
Data Rate (Mbps Max.)	Up to 1 Gbps
RF Input Sensitivity Level (dBmV)	-15 to +15

Continue to next page.

Technical Specification

Specifications Continued

RF Upstream

Transmitters	8 DOCSIS upstream carriers
DOCSIS Bonding	Up to 8 channels
Frequency Range (MHz)	5 to 42
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)
Data Rate (Mbps Max.)	up to 320
RF Output Level (dBmV)	ATDMA: +8 to 54 (32 QAM, 64 QAM) +8 to 55 (8 QAM, 16 QAM) +8 to 58 (QPSK)
Automatic Level Adjust	Yes
Frequency Stability (kHz)	±5
Output Impedance (Ohms)	75

MOCA 2.0

Frequency (MHz)	1150 – 1500
Bandwidth (MHz)	50
RF Output Level (dBm)	+4 (typical)

802.11n Wireless (optional – see ordering codes)

Operating band(s)	Dual band (2.4 GHz + 5 GHz) concurrent
Antennas	Customized 3x3:3 MIMO with Beam Forming

Telephony

Supervisory Voltage	48 Vdc nominal
Maximum Loop Length to CPE	1000 ft (305M) of 26 AWG (0.4 mm) wire
Ringing Load Capacity	10 REN total; 5 per line
Provisionable High Loop Current Mode	Yes (40mA constant current source, NA templates ONLY)
Telcordia™ GR 1089 (Lightning and Power Surge) Tested	Yes
Programmable Interface for Worldwide Applications	Yes (supports multiple country templates)
Cordless Telephony support	DECT 6.0 and CAT-iQ2.0

Applications Performance

Host Processor	1.2 GHz Intel Atom Processor
Memory – DRAM	2 GB DDR3
Memory – Flash	512 MB NAND
Transcoding	transcoder supporting up to 4 x real time HD stream to ½ HD, SD or sub-SD MPEG4 pt. 10 (AVC)

Battery back-up times are typical and can be influenced by the age of the battery, the charging state, storage conditions and operating temperature as well as factors such as data activity and length of active telephone calls. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice . Actual operating range may vary according to environmental conditions at the time of use.

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Specifications Continued

Standards

DOCSIS 3.0	IEEE 802.3, IEEE 802.3ab, IEEE 802.3x
PacketCable™ 2.0	IEEE 802.1p, IEEE 802.1Q
DTCP-IP	IEEE Std. 802.11b, 1999 Edition
MoCA® 2.0	IEEE Std. 802.11g, 2002 Edition
USB 2.0	IEEE Std. 802.11n
eSATA 2.0	UL® 60950
Codec: G.711, 64 kbps, μ and A-law encoded speech	FCC Part 15 Class B
T.38 Fax Relay	

Ordering Information

Part Number Description

800954	MTA; MG2402G/CT-0, Cablecard WIRELESS EMTA, DOCSIS 3.0, No Battery, no HDD, 2-LINE GATEWAY, 24x8, 802.11N DBC, DECT, MoCA 2.0 Zigbee, North American External Power Supply
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Accessories

789699	Replacement -Cell, 4.4 Ah, Li-Ion Battery Pack
793100	Point of entry MoCA Filter (bulk packaging: order in multiples of 50)

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www.arrisi.com



ARRIS Whole Home Solution

Media Gateway MG5125G



Configuration

- DOCSIS® 3.0 8x4
- 6 QAM/DVB Tuners for Video
- Four Port Gig-Ethernet
- Two Hosted USB 2.0 Ports
- MoCA® 1.1+
- Two lines of carrier grade voice with up to 8 hours of battery standby time
- Internal 500GB HDD
- eSATA port for additional storage
- M-CARD interface for separable security
- Up to 512MB RAM
- DLNA 1.5
- Optional 802.11n dual band wireless (Model number MG5225G)
- Integrated Power Supply

Applications

The ARRIS Media Gateway enables cable operators to extend the footprint throughout the home, eliminating "box clutter" while delivering broadcast and narrowcast video, video on demand, high speed data and voice over IP, as well as internet over-the-top and user generated content. The ARRIS Media Gateway provides the launching pad for operators to leverage their current video distribution infrastructure while embarking into the new realm of IP Video at their own pace.

At the hub of the ARRIS Whole Home Solution, the ARRIS Media Gateway integrates DOCSIS 3.0 high speed data, 4 port Ethernet home networking router (optional 802.11n), MoCA 1.1, CableCARD™ security, multi-room HD DVR, two lines of carrier class telephony, and a DLNA-compliant server into one device.

Features

- Supports playback (via the ARRIS Media Player) of all major media codecs:
 - Video: MPEG-1, MPEG-2, MPEG-4, H.264, and WMV files
 - Music: MP3, WMA, and AAC (unprotected files), and LPCM files
 - Photo: JPEG, GIF, BMP and PNG files
- DOCSIS 3.0 compliant platform for high speed internet and/or IP based video service delivery
- IP Encapsulation of QAM based video
- Comprehensive HD DVR Functionality, offering control of Live TV, full HD recording capability and simultaneous recording of up to 6 programs
- DTCP-IP (Digital Transmission Content Protection over IP) provides encrypted content protection for distribution to authorized devices within the home
- DLNA support for Media Sharing and connected home features
- Integrated Browser
- Full suite of Home Networking options including MOCA 1.1+, (4) Gig-Ethernet Ports, and Wireless 802.11n (optional)
- 2 lines of carrier class voice service battery backed with up to 8 hours of stand-by time

ARRIS Whole Home Solution Media Gateway MG5125

Designed to deliver video, voice, data, home networking, and other advanced services throughout the home, the ARRIS Whole Home Solution allows cable operators to offer a market-leading product while maximizing operational efficiency and decreasing CAPEX and OPEX.



Find more information about the ARRIS Whole Home Solution

Product Flyers

- Media Gateway MG5125/5225G Product Flyer
- Media Player MP2000 Product Flyer
- Portal Product Flyer
- Moxi User Interface Product Flyer
- http://www.arrisi.com/solutions/whole_home/index.asp

Sales

Contact ARRIS for additional product information and sales support

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ARRIS Whole Home Solution

Media Player MP2000



Configuration

- HDMI 1.3a with CEC up to 1080p60
- Component YPrPb up to 1080i
- Composite Output (NTSC)
- Stereo analog audio output
- Optical S/PDIF Outputs
- Front and rear USB 2.0 Ports
- 5.1 Audio
- 10/100 Mbps Ethernet
- MoCA® 1.1+
- Integrated Power Supply

Applications

It's a matter of economics: The ARRIS Whole Home Solution enables a lower cost of acquisition, higher return on capital investment, and simplified whole home solution.

ARRIS Media Players are the subscriber-facing piece of the solution. Multiple ARRIS Media Players connect directly to the ARRIS Media Gateway via the home network, allowing the Media Players to view live and On Demand TV, access premium Internet services, watch and record programming on the Media Gateway's DVR, and play content from any DLNA server in the home – all at a fraction of the cost of current multi-room solutions.

ARRIS Media Players boast the SoC chip system, providing performance enhancements such as fast channel change and enhanced 3D graphics. The unit is compatible with HD and SD television transmissions across all industry standard compressions, including MPEG-2 and MPEG-4/H.264 video coding, allowing operators to optimize their broadcast bandwidth.

Features

- Full 1080p HD 3D graphics for a superior consumer experience
- Supports multiple Video Industry CODECs: MPEG2, MPEG4.10/H.264, VC1
- Accelerated OpenGL® ES 1.0 support
- DLNA support for Media Sharing and connected home features
- Plug and play installation process via MoCA or Ethernet
- Supports playback of all major media codecs:
 - Photo: JPEG, GIF, BMP and PNG files
 - Music: MP3, WMA, and AAC (unprotected files), and LPCM files
 - Video: MPEG-1, MPEG-2, MPEG-4, H.264, and WMV files

ARRIS Whole Home Solution Media Player MP2000

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